

1. (Amended) A coreless type linear motor comprising a rotor and a stator, wherein said stator comprises a pair of parallel guide plates made of ferromagnetic material and a plurality of permanent magnets on each of said guides plates;

wherein said rotor comprises a first plate, an upper cover secured to the first plate, and a plurality of coils, said first plate and said coils extending between said pair of guide plates, and said permanent magnets on said guide plates neighboring said first plate;

wherein a plurality coil troughs are set in said first plate, said coils being buried in said coil troughs, said coils being made by winding conductive wires, and a plurality of heat holes being formed in said upper cover at locations adjacent respective centers of said coils, said heat holes being exposed to outside of said first plate to cause heat from said coils to be transmitted into air through said heat holes.

2. (Amended) A coreless type linear motor as claimed in claim 1, further comprising a heat sink compound filled into said centers of said coils and said heat holes after said coils are buried into said coil troughs to cause heat from said coils to transit into air easily and to cause said first plate to have good strength.

3. (Amended) A coreless type linear motor as recited in claim 2, wherein a plurality of heat pipes are buried in said heat holes.

4. A coreless type linear motor as recited in claim 3, wherein said heat pipes are connected to a heat sink to help dissipate heat.

CLAIM 5 HAS BEEN CANCELLED

6. (Amended) A coreless type linear motor as recited in claim 1, wherein a plurality of heat dissipation holes are set near each of said plurality of coils.

7. (Amended) A coreless type linear motor as recited in claim 6, wherein a heat sink compound is filled into said plurality of heat dissipation holes to increase a strength of said first plate and said upper cover.

Claims 8—11 have been cancelled.